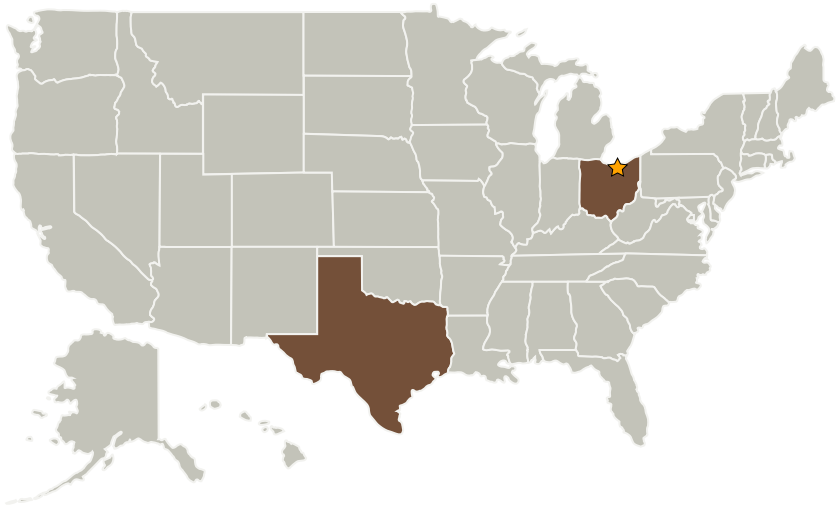
Multifunctional High Performance Textiles, Phase I

Completed Technology Project (2006 - 2006)

Project Introduction

This SBIR proposal is to establish a platform technology of space durable thermally/electrically conductive fabrics for space environment applications. The fabrics are based on nanoengineered fibers and yarns under development at NanoTex Corp. With increased emphasis on long term manned space missions with limited resources, there is increased need for efficient passive thermal control systems. Furthermore, the proposed fabrics are multifunctional as they will have improved strength and tenacity, designed electrical conductivity, and greater thermal stability.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Glenn Research Center(GRC)	Lead Organization	NASA Center	Cleveland, Ohio
NanoTex Corporation	Supporting Organization	Industry	Houston, Texas

Primary U.S. Work Locations	
Ohio	Texas

Multifunctional High Performance Textiles, Phase I

Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Glenn Research Center (GRC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Multifunctional High Performance Textiles, Phase I

Completed Technology Project (2006 - 2006)

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX14 Thermal Management Systems
  - TX14.2 Thermal Control Components and Systems
    - TX14.2.8 Measurement and Control